

Translated by WOPFS.

Amelina, L (1927) Die Süßwasser Cyclopidenlarven. Arb.biol.Stat.Kossino, 5, 31-39. pp.38-39. Translation of key to the identification of the naupliar instars of the genus Cyclops.

1.

Length of the distal segments of the exopod of the 2nd antennae
equal to or longer than the 3 preceding segments.....(2)
shorter than the 3 preceding segments.....(4)
2.

Length of hairs on middle segment of 1st antenna:
distal hair is longest.....CYCLOPS PRASINUS
all hairs about the same length.....(3)
3.

Masticatory hook of basal segment of 2nd antennae:
strongly developed. Body barrel-shaped
(Taf III. Figs. 6-9).....CYCLOPS PHALERATUS
normal shape. Body of other shapes.....SERRULATUS GROUP (11)
4.

The outer furcal setae are equal to or greater than half
the body length (in the first 3 instars); or the outer hairs
of the 1st maxilla are twice (or more than) as long as the
other hairs and project beyond the hind edge of the body (in
stages III and IV).....OITHONOIDES-LEUCKARTI
GROUP (5)

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Outer furcal setae are less than half the body-
length (in the first, three instars), or the outer
hairs of the 1st maxilla are not longer than the
other hairs and never reach beyond the hind edge
of the body.....(8)
5.

Apical setae of the distal segment of the endopodite
of the mandible.
- Outer seta is twice as long as the inner seta
(1st stage) or is almost equal to or longer than
the 2 inner neighbouring setae taken together (in
all other stages) (see fig. 1-5, Taf. 1).....CYCLOPS LEUCKARTI
- Outer seta never exceeds the length of the other
setae.(6)
6.

Longest apical seta of the distal segment of the
endopodite of the mandible on the ventral body-side.
- unfeathered.....CYCLOPS OITHONOIDES
- feathered(7)
7.

Length of the outer furcal setae in first 3 stages -
shorter than ½ body lt.....CYCLOPS BICUSPIDATUS
- equal to or more than ½ body lt...CYCLOPS DYBOWSKII
lumber of furcal setae in stages 4 & 5. - three.....CYCLOPS BICUSPIDATUS
- two and a short spine
(Taf. I. Pigs. 14 & 15).....CYCLOPS DYBOWSKII

8. Surface of labrum.
 With an irregular transversely running row of
 long hairs (Taf. III figs. 1-5).....CYCLOPS VIRIDIS
 Without above character.....(9)

9. On the underside of the body a pattern of:-
 - two tufts of setae with a transverse row of
 short hairs in betweenCYCLOPS ALBIDUS
 - hairs in the form of a loop.....(10)

10. Body lt in
 instar:- I II III IV V
 80-90, 90-95, 100-105, 120-135, 150-165.....CYCLOPS DIAPHANUS
 in 105-120,115-125,135-145,170-185, 195-205.....CYCLOPS VERNALIS

11. Distal segment of 1st antenna has three setae and
 that of the endopodite of the mandible 4 (in
 stage I).

- (1) Distal segment of the 1st antenna has 4 setae of
 different lengths and the exopodite of the mandible
 has 6 (in stage II). On each side of the hind edge
 of the body is a thin outer unfeathered seta and a
 stout inner seta beset with short hairs (stage III).
 Furcal setae are all about the same length (stages IV & V)....CYCLOPS SERRULATUS

- (2) Distal segments of 1st antenna has 2 setae and that of
 the endopodite of the mandible 3 (in stage I). Distal
 segment of the 1st antenna has 3 hairs of equal length
 and the exopodite of the mandible has 5 (stage II).
 On each side of the hind end of the body are two
 setae; the hairs of the inner edge of the stouter
 setae are noticeably longer than the hairs of the
 outer edge (stage III).
 The inner furcal setae are markedly longer than
 the outer hairs (stages IV & V).....CYCLOPS MACRURUS

Notice

Please note that these translations were produced to assist the scientific staff of the FBA (Freshwater Biological Association) in their research. These translations were done by scientific staff with relevant language skills and not by professional translators.